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PTO/SB/08a (08-03)

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Substitute for form 1449A/PTO

SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT  
BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

6

## Complete if Known

Application Number	10/036,566
Filing Date	December 21, 2001
First Named Inventor	Eric J. Horvitz, et al.
Art Unit	2143
Examiner Name	Alina A. Boutah

Attorney Docket Number MS177851.01/MSFTP954US

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.*	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)	MM-DD-YYYY		
ANB		US- 6,513,046	01-28-2003	Abbott, III et al.	
ANB		US- 6,747,675	06-08-2004	Abbott et al.	
ANB		US- 6,801,223	10-05-2004	Abbott et al.	
ANB		US- 6,842,877	01-11-2005	Robarts et al.	
ANB		US- 6,466,232	10-15-2002	Newell et al.	
ANB		US- 6,549,915	04-15-2003	Abbott, III et al.	
ANB		US- 6,791,580	09-14-2004	Abbott et al.	
ANB		US- 6,812,937	11-02-2004	Abbott et al.	
ANB		US- 2001/0040591	11-15-2001	Abbott et al.	
ANB		US- 2001/0043232	11-22-2001	Abbott et al.	
ANB		US- 2002/0044152	04-18-2002	Abbott, III et al.	
ANB		US- 2002/0052963	05-02-2002	Abbott et al.	
ANB		US- 2002/0054174	05-09-2002	Abbott et al.	
ANB		US- 2002/0080155	06-27-2002	Abbott et al.	
ANB		US- 2002/0083025	06-27-2002	Robarts et al.	
ANB		US- 2002/0087525	07-04-2002	Abbott et al.	
ANB		US- 2003/0046401	03-06-2003	Abbott et al.	
ANB		US- 2003/0034078	02-10-2005	Abbott et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.*	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>2</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			

Examiner Signature

*Alina Boutah*

Date Considered

3/28/06

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Substitute for form 1449A/PTO		<b>Complete If Known</b>	
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/036,566
(Use as many sheets as necessary)		Filing Date	December 21, 2001
Sheet	2	of	6
		Examiner Name	Alma A. Boutah
		Attorney Docket Number	MS177851.01/MSFTP954US

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
ANB		US- 2001/0040590	11-15-2001	Abbott et al.	
ANB		US- 2001/0043231	11-22-2001	Abbott et al.	
ANB		US- 2002/0032689	03-14-2002	Abbott, III et al.	
ANB		US- 2002/0052930	05-02-2002	Abbott et al.	
ANB		US- 2002/0054130	05-09-2002	Abbott, III et al.	
ANB		US- 2002/0078204	06-20-2002	Newell et al.	
ANB		US- 2002/0080156	06-27-2002	Abbott et al.	
ANB		US- 2002/0083158	06-27-2002	Abbott et al.	
ANB		US- 2002/0099817	07-25-2002	Abbott et al.	
ANB		US- 2003/0154476	08-14-2003	Abbott, III et al.	
ANB		US- 5,603,054	02-11-1997	Theimer et al.	
ANB		US- 5,555,376	09-10-1996	Theimer et al.	
ANB		US- 5,611,050	03-11-1997	Theimer et al.	
ANB		US- 5,544,321	08-06-1996	Theimer et al.	
ANB		US- 5,493,692	02-20-1996	Theimer et al.	
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			

Examiner Signature	<i>Alma Boutah</i>	Date Considered	3/28/06
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**SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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of

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**Complete if Known**

Application Number	10/036,566
Filing Date	December 21, 2001
First Named Inventor	Eric J. Horvitz, et al.
Art Unit	2143
Examiner Name	Alina A. Boutah
Attorney Docket Number	MST77831.01/MSFTP954US

<b>U. S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BYJ/7		US- 5,859,979	01-12-1999	Tung, et al.	
ANB		US- 5,963,910	10-05-1999	Ulwick	
ANB		US- 6,032,189	02-29-2000	Jizenji, et al.	
ANB		US- 6,044,486	03-28-2000	Underseth	
ANB		US- 6,181,684	01-30-2001	Turcotte, et al.	
ANB		US- 6,212,350	04-03-2001	Segur	
ANB		US- 6,491,685	12-10-2002	Ensel, et al.	
ANB		US- 4,672,632	06-09-1987	Andersen	
ANB		US- 5,790,801	08-04-1998	Funao	
ANB		US- 5,960,423	09-28-1999	Chaudhuri, et al.	
ANB		US- 6,654,734	11-25-2003	Mani, et al.	
ANB		US- 6,738,931	05-18-2004	Osborn, et al.	
ANB		US- 2002/0118772 A1	08-29-2002	Lin	
ANB		US- 2002/0161862	10-31-2002	Horvitz	
ANB		US- 2002/0174199	11-21-2002	Horvitz	
ANB		US- 2003/0064679	01-02-2003	Troyon, et al.	
ANB		US- 2003/0097485	05-22-2003	Horvitz, et al.	
ANB		US- 2004/0143636	07-22-2004	Horvitz, et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>

Examiner Signature

*Alina Boutah*

Date Considered

3/28/06

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Substitute for form 1449/PTO		Complete if Known			
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/036,566		
(Use as many sheets as necessary)		Filing Date	December 21, 2001		
		First Named Inventor	Eric J. Horvitz, et al.		
		Art Unit	2143		
		Examiner Name	Alina A. Boutah		
Sheet	4	of	6	Attorney Docket Number	MS177851.01/MSFTP954US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		ANDY HARTER, et al., A Distributed Location System for the Active Office, <u>IEEE Network</u> , 1994, pp. 62-70.	
		GUANLING CHEN, et al., A Survey of Context-Aware Mobile Computing Research, <u>Dartmouth Computer Science Technical Report</u> , 2000, 16 pages.	
		WILLIAM NOAH SCHILT, A System Architecture for Context-Aware Mobile Computing, <u>Columbia University</u> , 1995, 153 pages.	
		MIKE SPREITZER, et al., Providing Location Information in a Ubiquitous Computing Environment, <u>SIGOPS '93</u> , 1993, pp.270-283.	
		MARVIN THEIMER, et al., Operating System Issues for PDAs, In <u>Fourth Workshop on Workstation Operating Systems</u> , 1993, 7 pages.	
		ROY WANT, Active Badges and Personal Interactive Computing Objects, <u>IEEE Transactions on Consumer Electronics</u> , 1992, 11 pages, Vol. 38 - No. 1.	
		BILL N. SCHILT, et al., The ParcTab Mobile Computing System, <u>IEEE WWOS-IV</u> , 1993, 4 pages.	
		BILL SCHILT, et al., Context-Aware Computing Applications, In <u>Proceedings of the Workshop on Mobile Computing Systems and Applications</u> , December 1994, pp. 85-90.	
		BILL N. SCHILT, et al., Customizing Mobile Applications, <u>Proceedings USENIX Symposium on Mobile and Location Independent Computing</u> , August 1993, 9 pages.	
		MIKE SPREITZER, et al., Architectural Considerations for Scalable, Secure, Mobile Computing with Location Information, In <u>The 14th International Conference on Distributed Computing Systems</u> , June 1994, pages 29-38.	

Examiner Signature	<i>Alina Boutah</i>	Date Considered	3/28/06
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Art Unit	2143
Examiner Name	Alina A. Boutah
Attorney Docket Number	MS177651.01/MSFTP954US

NON PATENT LITERATURE DOCUMENTS		
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		MIKE SPREITZER, et al., Sealable, Secure, Mobile Computing with Location Information, Communications of the ACM, July 1993, 1 page, Vol. 36 - No. 7.
		ROY WANT, et al., The Active Badge Location System, ACM Transactions on Information Systems, January 1992, pp. 91-102, Vol. 10 - No. 1.
		MARK WEISER, Some Computer Science Issues in Ubiquitous Computing, Communications of the ACM, July 1993, pp. 75-84, Vol. 36 - No. 7.
		M. BILLINGHURST, et al., An Evaluation of Wearable Information Spaces, Proceedings of the Virtual Reality Annual International Symposium, 1998, 8 pages.
		BRADLEY J. RHODES, Remembrance Agent: A continuously running automated information retrieval system, The Proceedings of The First International Conference on The Practical Application Of Intelligent Agents and Multi Agent Technology, 1996, pp. 487-495.
		ERIC HORVITZ, et al., In Pursuit of Effective Handsfree Decision Support: Coupling Bayesian Inference, Speech Understanding, and User Models, 1995, 8 pages.
		BRADLEY J. RHODES, The Wearable Remembrance Agent: A System for Augmented Theory, The Proceedings of The First International Symposium on Wearable Computers, October 1997, pp. 123-128.
ANB		ERIC HORVITZ, et al., Attention-Sensitive Alerting in Computing Systems, Microsoft Research, August 1999.
		BILL N. SCHILIT, et al., Disseminating Active Map Information to Mobile Hosts, IEEE Network, 1994, pages 22-32, Vol. 8 - No. 5.
		MARK BILLINGHURST, et al., Wearable Devices: New Ways to Manage Information, IEEE Computer Society, January 1999, pp. 57-64.

Examiner Signature	<i>Alina Boutah</i>	Date Considered	3/28/06
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Application Number

10/036,566

Filing Date

December 21, 2001

First Named Inventor

Eric J. Horvitz, et al.

Art Unit

2143

Examiner Name

Alina A. Boutah

Attorney Docket Number

MS177851.01/MSFTP954US

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		THAD EUGENE STARNER, Wearable Computing and Contextual Awareness, Massachusetts Institute of Technology, June 1999, 248 pages.	
		BRADLEY J. RHODES, The Wearable Remembrance Agent: A System for Augmented Memory, Personal Technologies Journal Special Issue on Wearable Computing, 1997, 12 pages.	
		Workshop on Wearable Computing Systems, August 19-21, 1996.	
		MARK BILLINGHURST, Research Directions in Wearable Computing, University of Washington, May, 1998, 48 pages.	
		Mark Weiser, The Computer for the 21st Century, Scientific American, September 1991, pp. 94-104, Vol. 265 - No. 3.	

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